

9176

Diag. Cht. No. 1286-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey ..... PLANIMETRIC

Field No. Ph-36(48) ..... Office No. T-9176

LOCALITY

State ..... TEXAS

General locality ..... CORPUS CHRISTI BAY

Locality ..... NUECES BAY

194 51

CHIEF OF PARTY

C. W. Clark, Chief of Field Party.

H.A. Paton, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE Feb-26-1954

B-1870-1 (1)

9176

DATA RECORD

T-9176

Project No. (II): Ph-36(48)

Quadrangle Name (IV): Taft

Field Office (II): Corpus Christi, Texas

Chief of Party: Charles W. Clark

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III):  
14 February 1949

Copy filed in Division of  
Photogrammetry (IV)  
Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 3-21-50 Date reported to Nautical Chart Branch (IV): 3-28-50

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV): 1:20000

Publication date (IV): 1953

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:  
Elevations shown as (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): Johnson 1931

Lat.: 27° 56' 20.065" (617.6m) Long.: 97° 25' 28.843" (788.5m)

Adjusted  
~~Coordinates~~

Plane Coordinates (IV):

State: Texas

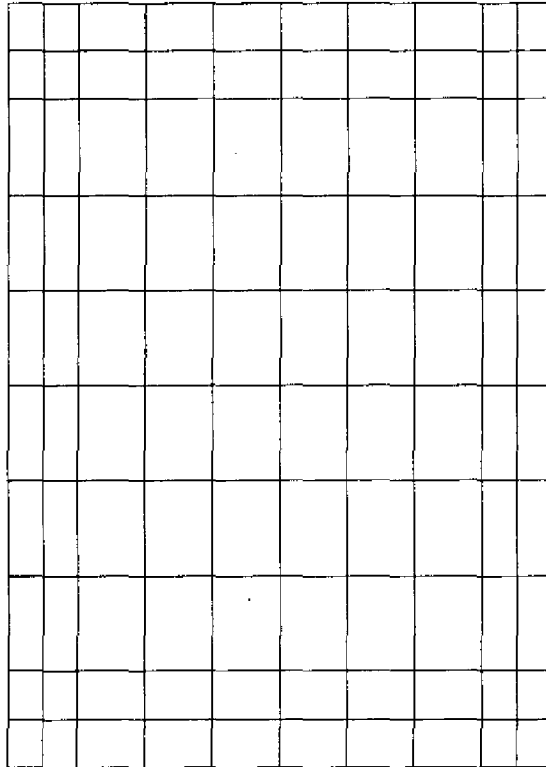
Zone: South

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel  
(Show name within area)  
(II) (III)  
Planimetric only

DATA RECORD

Field Inspection by (II):  
 C. H. Bishop, Cartographic Survey Aid  
 F. M. Wisiecki, Cartographic Survey Aid  
 Date: March, 1949

Planetable contouring by (II): None  
 Date:

Completion Surveys by (II): W.H. Shearouse  
 Date: Aug 1951

Mean High Water Location (III) (State date and method of location):  
 Identified on field photographs  
 Date: 12-8-48

Projection and Grids ruled by (IV): W.E.W.  
 Date: 6-22-49

Projection and Grids checked by (IV): H/D.W.  
 Date: 6-23-49

Control plotted by (III): F.J.Tarcza  
 Date: 7-27-49

Control checked by (III): M.F.Kirk  
 Date: 8-5-49

Radial Plot ~~by (III): F.J.Tarcza~~  
~~Control checked by (III): F.J.Tarcza~~  
 Date: 9-30-49

Planimetry  
 Stereoscopic Instrument compilation (III):  
 Contours  
 Date:  
 Date:

Manuscript delineated by (III): J.Y.Councill  
 Date: 2-8-50

Photogrammetric Office Review by (III): R.Glaser  
 Date: 3-8-50

Elevations on Manuscript  
 checked by (I) (III): None  
 Date:

USC&GS Single lens type O focal length 6 inches

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
48-0-1205	Dec. 8, 1948	1150	1:20,000	} Not computed Tide negligible
48-0-1206	"	1151	"	
48-0-1207	"	1152	"	
48-0-1208	"	1153	"	
48-0-1216	"	1201	"	
48-0-1217	"	1201	"	
48-0-1218	"	1202	"	
48-0-1219	"	1203	"	

Tide (III)

Diurnal

Reference Station: Galveston, Texas

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	1.0	1.4

Washington Office Review by (IV): C. Theurer

Date: 11 Aug 1952

Final Drafting by (IV): *Brane*  
*Dean*

Date: 7-10-53

Drafting verified for reproduction by (IV): *W.O. Halluin*

Date: 8-13-53

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 56

Shoreline (More than 200 meters to opposite shore) (III): 3 miles

Shoreline (Less than 200 meters to opposite shore) (III): 0.8 mile

Control Leveling - Miles (II): 0

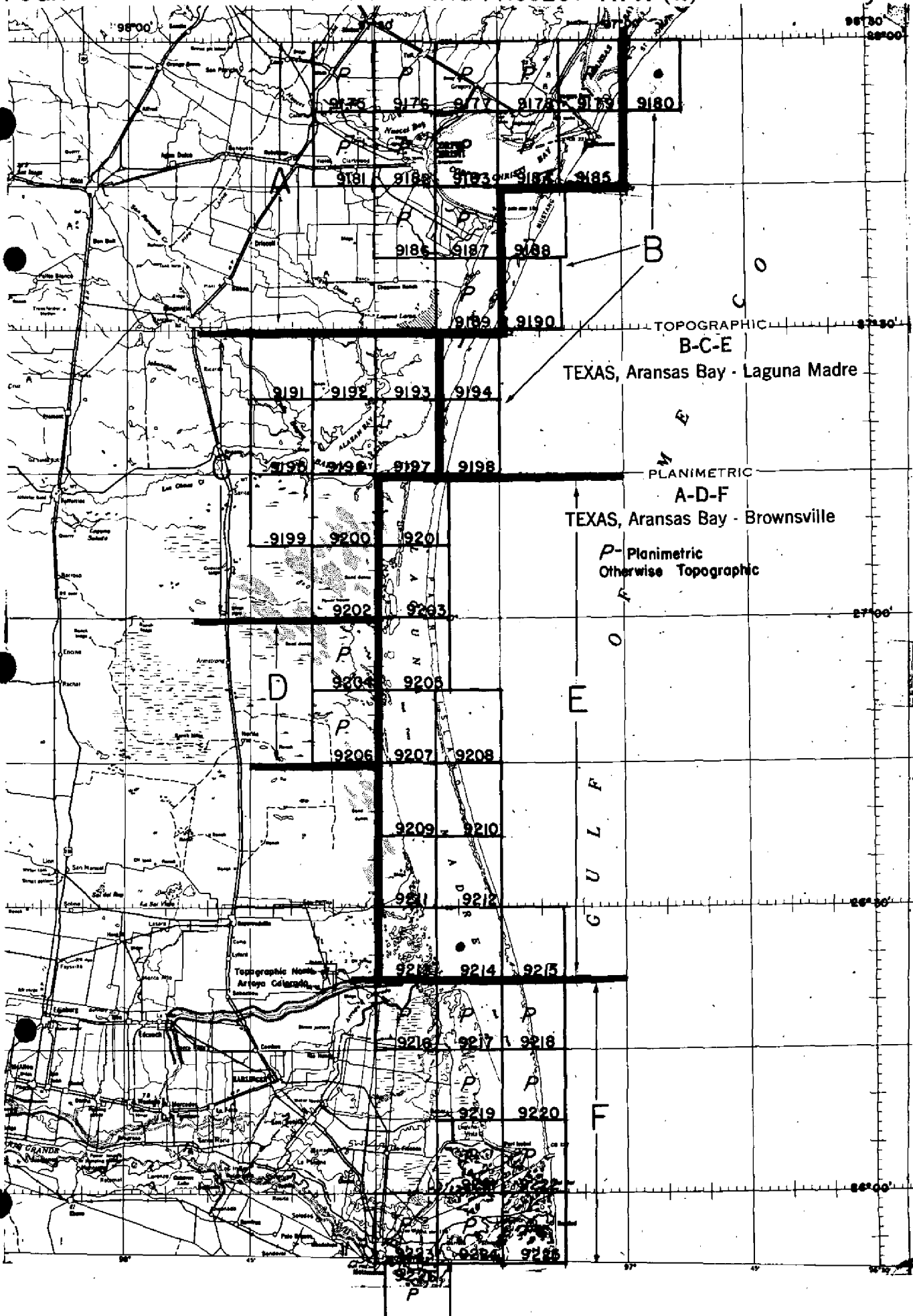
Number of Triangulation Stations searched for (II): 4 Recovered: 4 Identified: 4

Number of BMs searched for (II): 29 Recovered: 22 Identified: 22

Number of Recoverable Photo Stations established (III): 2\*

Number of Temporary Photo Hydro Stations established (III): 0

Remarks: \* Form 524 being submitted for only one recoverable station. No form 524 was received for BM A 588 which is indicated on photograph 48-0-1219 as a recoverable topographic station.



TOPOGRAPHIC  
B-C-E  
TEXAS, Aransas Bay - Laguna Madre

PLANIMETRIC  
A-D-F  
TEXAS, Aransas Bay - Brownsville

P-Planimetric  
Otherwise Topographic

G  
U  
L  
F

Summary T-9176

Project Ph-36(48) consists of fifty-two quadrangles at 1:20,000, each 7.5 minutes in latitude and longitude, covering the Gulf Coast of Texas and the Intracoastal Waterway from Aransas Bay to Brownsville and the Mexican Border. Adjoining the project to the north is a series of shoreline surveys in Part IV of Project Ph-14(46).

Information concerning Ph-36(48) in its broader aspects will be included in a project completion report to be compiled at the conclusion of the review of all surveys in this project.

Twenty-six of the quadrangles in this project are topographic surveys and are to be published at 1:24,000 scale by the Geological Survey. The other twenty-six quadrangles are planimetric surveys. Of these, nineteen are to be used as bases by the Geological Survey for the compilation of 7.5 minute topographic quadrangles and will not be published as planimetric maps. The remaining seven, T-9175, T-9176, T-9177, T-9181, T-9189, T-9204, and T-9206, will be published as planimetric maps.

Cloth-backed lithographic prints of the original map manuscripts at compilation scale and the descriptive reports for all maps in this project will be filed in the Bureau archives. Cloth-backed copies of the published topographic quadrangles at 1:24,000 scale will also be filed.

*All special reports except the Geog. Names Report will be filed in the Project Completion Report.*

## FIELD INSPECTION REPORT

Quadrangle T-9176  
 (27-52.5/97-22.5)  
 Charles W. Clark, Chief of Party

This report includes the land area adjacent to the north shore of Nueces Bay and which is actually in Quadrangle T-9182. This was done because the same personnel completed the field work here as well as that in T-9176. The balance of T-9182 is covered in a separate report.

All phases of field work were completed in accordance with Director's Instructions dated 14 February 1949 - Instructions, Project Ph-36(48) - Field; and other applicable instructions as noted herein.

The field work was completed by the following personnel during the indicated periods of time.

NAME	PHASE	MONTH, 1949
Charles H. Bishop	Horizontal & Vertical Control	
Cartographic Survey Aid	Recovery and Identification	March
Frank M. Wisiecki	Horizontal & Vertical Control	
Cartographic Survey Aid	Recovery and Identification	
	Interior Field Inspection	March
	Shoreline Inspection	March

1. DESCRIPTION OF THE AREA:

This planimetric quadrangle lies within San Patricio County in the southern part of Texas and just north of Nueces Bay.

The entire area is arable except for a small section, bordering on Nueces Bay in the southwest corner of the quadrangle, which is marshy.

Petroleum and agriculture are the chief industries of the area.

The oil fields are located in the southern and eastern parts



of the quadrangle, and are slowly expanding northward.

The entire area, except around Nueces Bay, is very flat, which lends itself to farming. Corn, flax and truck products are the principal crops.

The land is clear with the exception of isolated areas covered with scrub. Clearing of the scrub area is continuously in progress.

2. COMPLETENESS OF FIELD INSPECTION:

Field Inspection in this quadrangle is believed to be adequate and complete with sufficient notes on the photographs so that the compiler should have no difficulty in compiling the manuscript.

3. INTERPRETATION OF THE PHOTOGRAPHS:

As the photography was of recent date no great difficulty was encountered in the interpretation of the photographic detail.

Throughout the quadrangle, white areas are seen on the photographs; they are spoils from oil wells, deposited during drilling operations. White spots on the photographs having a symmetrical design are small mounds of ash, left when the scrub areas were cleared and the scrub burned.

Square or rectangular areas, photographing white, and near farm buildings, are water holes dug into the ground with the spoil deposited on two or three sides of the hole.

4. HORIZONTAL CONTROL:

Four horizontal control stations were recovered and positively identified as follows:

TAPT CENTRAL POWER & LIGHT CO. TANK, 1934

JOHNSON, 1931

WHITE POINT, 1933

FAY, 1933

Sub-station Johnson 1931 was identified in the overlap area.

KOONCE, 1933 (in Quad. 9182)

ROSITA RANCH HOUSE, SOUTH CHIMNEY, 1905 (in Quad. 9182)

5. VERTICAL CONTROL:

All existing bench marks were searched for in this quadrangle. Twenty-one bench marks were recovered and identified. Seven were missing or destroyed.

6. CONTOURS AND DRAINAGE:

There are no perennial streams in the quadrangle except Nueces River. <sup>And a small stream in the SE corner of the quadrangle.</sup> All drainage is into Nueces River and Bay to the south and Copano Bay to the north.

7. MEAN HIGH WATER LINE:

The shoreline inspection was completed in accordance with Field Memorandum No. 1 - 1938, dated 20 June and Supplemental Instructions, dated 18 March 1944.

The inshore edge of marsh in the southwest corner of the quadrangle at Nueces Bay is the foot of the bluff.

8. MEAN LOW WATER LINE:

As there is no perceptible periodic tide in Nueces Bay, the low water line would be no appreciable distance from the high water line. The only change in high or low water line is caused by the winds.

9. WHARVES AND SHORELINE STRUCTURES:

Many piers, shown in the oil field area on Nueces Bay, were used for access to drilling operations. The white areas by the piers are places where drilling in the Bay was done.

10. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE:

At the southeast corner of the quadrangle, a cross country power line crosses Nueces Bay. Photograph No. 1205 shows the start of power line into the next quadrangle. No other detail was seen during the course of field inspection. Neither are there any details charted on existing charts within the limits of this quadrangle.

11. LANDMARKS AND AIDS TO NAVIGATION:

There are no charted landmarks within the limits of this quadrangle. None was recommended for charting.

There are no aids to navigation within the quadrangle.

12. HYDROGRAPHIC CONTROL:

None established as existing control is adequate.

13. LANDING FIELDS AND AERONAUTICAL AIDS:

Worsham Airport, a private airport, is located at the northeast end of the city of TAFT. The limits of the airport are shown on Photograph No. 1208.

A new CAA VHF facility, No. 114, has been constructed recently and was identified.

14. ROAD CLASSIFICATION:

All roads were classified in accordance with Photogrammetry Instructions No. 10, dated 14 April 1947 and as amended 4 October 1947.

15. BRIDGES:

There is a small wooden bridge over a small cove of Nueces Bay in the southwest section of the quadrangle. This bridge is not over navigable water. It was constructed by an oil company for their private use and is now abandoned and impassable as it is in

disrepair. It is a fixed trestle type affording skiff clearance only.  
*This bridge is on T 9182 to the south.*

16. BUILDING AND STRUCTURES:

All buildings and structures were classified in accordance with Photogrammetry Instructions No. 29, dated 1 October 1948.

No urban limits were established for the city of TAFT by the Washington Office. The city was field inspected as a rural area.

17. BOUNDARY MONUMENTS AND LINES:

See "Special Report Boundaries - Baffin Bay to Latitude 28° 00' - Project Ph-36(48)" to be submitted at a later date.

18. GEOGRAPHIC NAMES:

See "Special Report Geographic Names - Project Ph-36(48)" to be submitted at a later date. *on file. L\**

19. COAST PILOT:

See special report "Coast Pilot - Project Ph-36(48)" to be submitted at a later date.

Submitted:  
15 April 1949

*Frank M. Wisiecki*  
Frank M. Wisiecki  
Cartographic Survey Aid

Approved:  
20 May 1949

*Charles W. Clark*  
Charles W. Clark  
Lt. Cmdr. USC&GS  
Chief of Party *W*

MAP T-9176 PROJECT NO. PH-36(48)A SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
STAFF, CENTRAL POWER & LIGHT CO. TANK, 1934	G-2874 P. 76	N.A. 1927	27 58	59.078				1818.5	(28.4)		
JOHNSON, 1931	G-1252 p. 137	"	97 23	53.233				1454.7	(184.9)		
			27 56	20.065				617.6	(1229.3)		
			97 25	28.843				788.5	(851.8)		
SUB.PT. JOHNSON, 1931			27 56					156.6	(1690.3)		
			97 25					1589.6	(50.7)		
FAY, 1933	G-2874 P. 68	N.A. 1927	27 52	30.303				932.8	(914.1)		
			97 22	46.762				1279.2	(362.1)		
SUB.PT. FAY, 1933			27 52					974.3	(872.6)		
			97 22					1231.1	(410.2)		
WHITE POINT, 1933	G-2874 P. 68	N.A. 1927	27 52	38.942				1198.7	(648.2)		
			97 28	42.493				1162.4	(478.9)		
SUB.PT. WHITE POINT, 1933			27 52					1228.5	(618.4)		
			97 28					1157.2	(484.1)		

## COMPILATION REPORT

PH-36(48)A

T-9176

PHOTOGRAMMETRIC PLOT REPORT

The photogrammetric plot report for this area is included in the descriptive report for T-9175 submitted to the Washington Office on 16 December 1949.

31. DELINEATION

Manuscript No. T-9176 was delineated by the graphic method. Water holes and cattle trails were delineated in accordance with the letter on this subject dated June 14, 1949 from Lt. Comdr. Charles W. Clark to the Director.

32. CONTROL

The identification, density, and placement of horizontal control was adequate, except in the northwest corner of this survey which is discussed in item 23 of the photogrammetric plot report.

33. SUPPLEMENTAL DATA

Geographic name standard dated Nov. 4, 1949, on U.S.G.S. CORPUS CHRISTI, TEXAS, quadrangle was furnished by the Washington Office.

The following were furnished by the field party:

Photostat "The City of Taft", Texas  
Photostat Map of San Patricio County, Texas, indicating  
Commissioner Precincts  
Blue Print "District 16" - Highway Map, revised to Dec. 1949  
U.S.C. & G.S. Air Photo Compilation No. T-5366 (1934), scale  
1:20,000

34. CONTOURS AND DRAINAGE

Contours - inapplicable  
Drainage - See field report item 6.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection is considered adequate.

36. OFFSHORE DETAILS

See field report, item 10.

37. LANDMARKS AND AIDS

See field report, item 11.

Form 567 for one aeronautical aid, has been prepared by the compilation office and accompanies this report.

38. CONTROL FOR FUTURE SURVEYS

Form 524 for one recoverable topographic station prepared by the field party, was completed and is being submitted herewith. This station was not reported in item 12 of the field report for this survey, but was erroneously included in the field report for adjoining survey No. T-9175. This recoverable topographic station is listed under item 49.

39. JUNCTIONS

Junction with Surveys T-9177 to the east, T-9182 to the south, and T-9175 to the west, have been made and are in agreement. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. LANDING FIELDS AND AERONAUTICAL AIDS

See field report, item 13.

42-45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Survey No. T-9176 has been compared with

1. U.S. ~~and~~ G.S. CORPUS CHRISTI, TEXAS, quadrangle, scale 1:62,500 edition of 1925.
2. U.S.C. & G.S. Air photo compilation No. T-5366, scale 1:20,000 dated 1934.

47. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-9176 has been compared with  
USC&GS Chart No. 1286, scale 1:80,000, 13th edition, published  
at Washington, D. C., December 19, 1949, corrected to October  
15, 1949, and with

USC&GS Chart No. 523, scale 1:40,000, 1st edition, published at  
Washington, D. C. October 10, 1949, corrected to December  
19, 1949.

Items to be applied to nautical charts:

None.

Items to be carried forward

None.

Respectfully submitted  
8 February 1950

Judson Y. Councill  
Judson Y. Councill  
Cartographic Draftsman

Approved and forwarded  
21 March 1950

Hubert A. Paton  
Hubert A. Paton  
Comdr., USC&GS  
Officer in Charge

*Jm*



48. GEOGRAPHIC NAMES

Bellevue Cemetery

- \* Commissioner Precinct No. 1
- \* Commissioner Precinct No. 2
- \* Commissioner Precinct No. 4

• Farm Road 631

✓ Nueces Bay  
✓ Nueces County

✓ Pres-Mex Girls School

✓ San Patricio County  
✓ Sodville  
✓ Sodville Church

✓ Taft  
✓ Texas and New Orleans (S P Lines) Southern Pacific  
Texas  
✓ US 181

✓ West Portland Gin  
✓ West Portland School  
✓ Worsham Airport  
✓ Zavala school

\* Name from supplemental data.  
✓ Whites Point Oil Field

Names underlined in  
red are approved  
8-13-52  
L. Healy

T-9176

49. NOTES FOR THE HYDROGRAPHER

One recoverable topographic station is shown on the manuscript. It is BAKE, 1949 for which a form 524 is being submitted. ~~BM A 588 has been identified on field photo 48-C-1219 as a recoverable topographic station, but no form 524 has been received.~~

50.

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 9176

1. Projection and grids B 2. Title B 3. Manuscript numbers B 4. Manuscript size B

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy B 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) B 7. Photo hydro stations B 8. Bench marks B  
~~9. Plotting of sextant fixes~~ 10. Photogrammetric plot report B 11. Detail points B

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline B 13. Low water line B 14. Rocks, shoals, etc. B 15. Bridges B 16. Aids to navigation B 17. Landmarks B 18. Other alongshore physical features B 19. Other along-shore cultural features B Aero-

## PHYSICAL FEATURES

20. Water features B 21. Natural ground cover B 22. Planetable contours B 23. Stereoscopic instrument contours B 24. Contours in general B 25. Spot elevations B 26. Other physical features B

## CULTURAL FEATURES

27. Roads B 28. Buildings B 29. Railroads B 30. Other cultural features B

## BOUNDARIES

31. Boundary lines B 32. Public land lines B

## MISCELLANEOUS

33. Geographic names B 34. Junctions B 35. Legibility of the manuscript B 36. Discrepancy overlay B 37. Descriptive Report B 38. Field inspection photographs B 39. Forms B  
 40. Raymond Glasser Reviewer Joseph Steinberg Supervisor, Review Section of Unit

41. Remarks (see attached sheet)

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
 Compiler

\_\_\_\_\_  
 Supervisor

43. Remarks:



## Field Edit Report, T-9176

51. Methods.--Field edit was accomplished by riding out all roads and walking to other areas where the reviewer requested information.

Planetable and tape methods were used to locate additions not visible on the photographs. Additions and corrections are shown in violet ink on the Field Edit Sheet and photographs. Deletions are shown in green.

The reviewers questions were answered on the Discrepancy Print and referenced to the Field Edit Sheet or respective photograph.

Field edit information is shown on the Field Edit Sheet and photographs 48-0-1205, 1206, 1207, 1208, 1216, 1217, and 1219.

52. Adequacy of compilation.--The compiling is well-done and will be complete after application of field edit information.

53. Map accuracy.--No accuracy tests were specified. Visual inspection indicates the horizontal position to be good.

54. Recommendations.--No recommendations are offered.

55. Examination of proof copy.--It is recommended that Mr. Randolph S. King, Civil Engineer, Sinton, Texas, be sent the proof copy of the map for examination. Mr. King has been County Surveyor of San Patricio County for 17 years and is qualified to make the examination.

Respectfully submitted,  
22 August 1951

*William H. Shearouse*  
William H. Shearouse,  
Cartographer

REVIEW REPORT T-9176  
PLANIMETRIC MAP  
August 15, 1952

62. Comparison with Registered Topographic Surveys:

T-1513	1:20,000	1882
4904	1:20,000	1934-35 (Graphic Control)
5366	1:20,000	1934

This map supersedes these surveys for nautical charting purposes.

63. Comparison with Maps of other Agencies: Advance Print USGS, Corpus Christi Quadrangle 1:48,000, 1951

This planimetric map was used as a base for the addition of contours for the NW/4 of the Corpus Christi Quadrangle. No discrepancies were noted.

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

Nautical Chart 523 1:40,000 1950

The shore ends of two submerged pipelines that do not appear on the chart, are shown on the map manuscript.

66. Map Accuracy: A horizontal accuracy test was run between triangulation stations Johnson and Brownsville - Ft. Worth Airway Beacon. Twenty three points, of which fourteen are on this map and nine on T-9175, were tested. Seven points did not meet the required accuracy. An examination of the results of this test, see Project Completion Report, disclosed that the radial plot in this area was correct but errors in the compilation of detail displaced the tested points as much as .8 mm. Straight roads were compiled with curves because of slight relief displacement on the photographs. All roads on this map were checked and corrected where necessary during final review and all detail on this map complies with National Map Accuracy Standards. All the maps in this project were spot tested for similar errors, but none was found with errors of this magnitude. *SM*  
Reviewed by:

*Charles Theurer*  
C. Theurer

APPROVED:

*S. V. Guilfith*  
Chief, Review Section  
Div. of Photogrammetry *B*

*W. E. Johnston*  
Chief, Nautical Chart Branch  
Division of Charts *CRS*

*O. S. Reading*  
Chief Div. of Photogrammetry  
*fil*

*Carl O. Heaton*  
Chief, Div. of Coastal Surveys  
*CH*

